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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

October 12, 2012

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-10302791, issued to STONE ENERGY CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto.

Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: SMITH 7H

Farm Name: SMITH, SONNY AND CHARLOTI

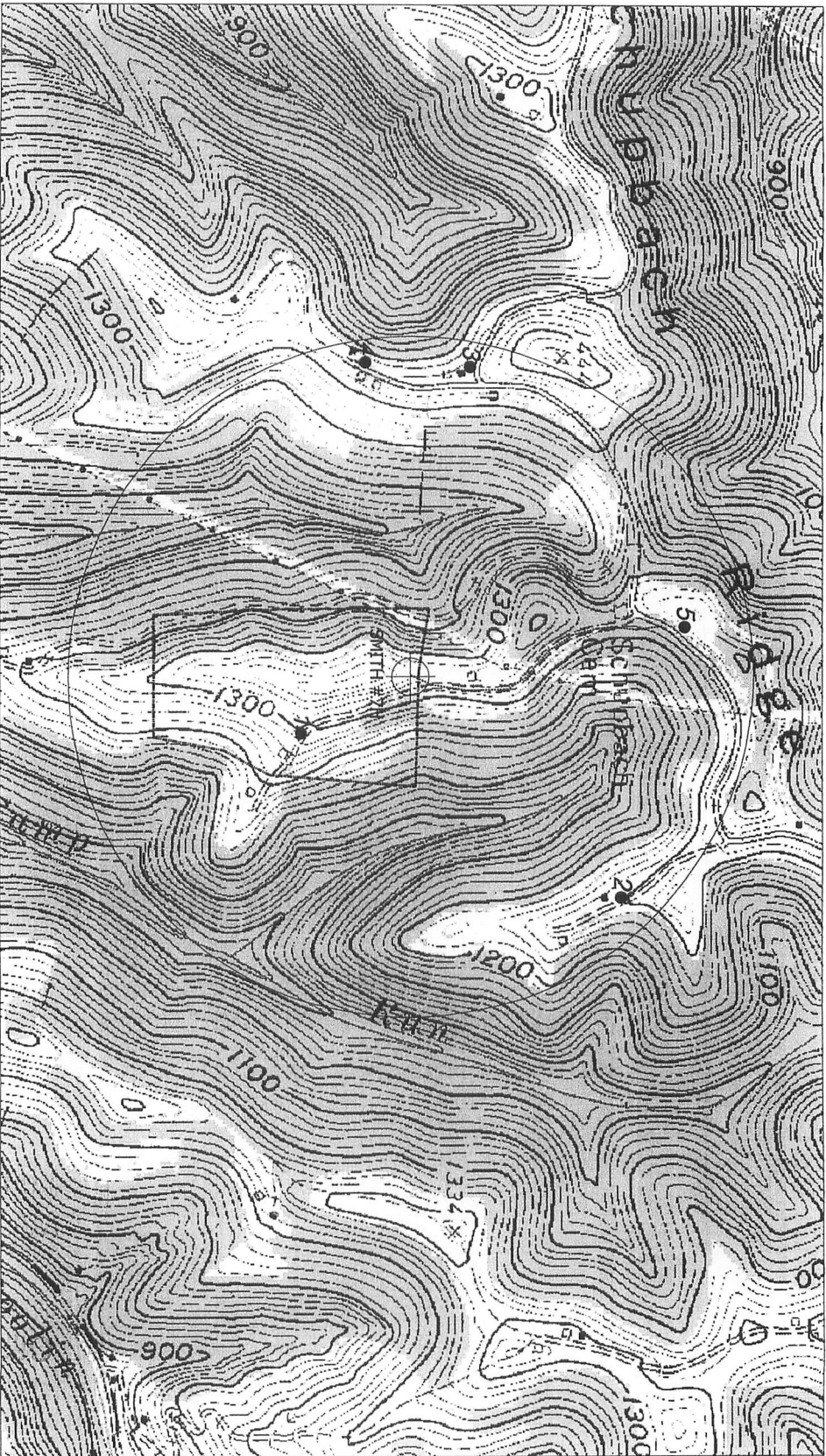
**API Well Number: 47-10302791**

**Permit Type: Horizontal 6A Well**

Date Issued: 10/12/2012

**Promoting a healthy environment.**

Stone Energy Corp.  
Smith #7H Water



D.H.

5-22-12

SCALE: 1-INCH = 1000-FEET



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'  
New Martinsville Quad

Stone Energy Corporation  
PO Box 52807  
Lafayette, LA 70508

# ●

Existing Access Road  
1000' Water Sampling  
Radius  
Possible Water  
Sources

SMITH #7H  
BOTTOM HOLE  
STATE PLANE  
COORDINATES  
NORTH ZONE  
(N) 423816  
(E) 1629579

SMITH #7H  
BOTTOM HOLE  
L & L DECIMAL  
39.65617  
80.81568

SMITH #7H  
BOTTOM HOLE  
UTM (NAD 83)  
4389622  
515828

NICE, ET AL  
413.59 ACRES ±  
MAP 5  
PARCEL 1

SCHUPBACH  
73.61 ACRES ±  
MAP 5  
PARCEL 11

SCHUPBACH  
40.25 ACRES ±  
MAP 5  
PARCEL 12

SMITH #7H  
STATE PLANE  
COORDINATES  
NORTH ZONE  
(N) 420250  
(E) 1630847

SMITH #7H  
L & L DECIMAL  
39.64643  
80.81099

SMITH #7H  
UTM (NAD 83)  
4388542  
516232

HEINZMAN  
138.239 ACRES ±  
MAP 5  
PARCEL 8

RICHTER  
80.5 ACRES ±  
MAP 5  
PARCEL 10

HEIDKAMP  
74.8 ACRES ±  
MAP 5  
PARCEL 24

WINTERS  
4.2 ACRES ±  
MAP 5  
PARCEL 26.1

KIRKHART  
22 ACRES ±  
MAP 5  
PARCEL 25

SCHUPBACH CEMETERY  
MAP 5  
PARCEL 31.1

KIRKHART  
53.5 ACRES ±  
MAP 5  
PARCEL 26

BLAKE  
18 ACRES ±  
MAP 5  
PARCEL 26.2

BLAKE  
107.25 ACRES ±  
MAP 5  
PARCEL 33

SMITH #7H  
LANDING POINT  
STATE PLANE  
COORDINATES  
NORTH ZONE  
(N) 420747  
(E) 1631293

SMITH #7H  
LANDING POINT  
L & L DECIMAL  
39.64782  
80.80943

SMITH #7H  
LANDING POINT  
UTM (NAD 83)  
4388695  
516365

SCHUPBACH  
99.75 ACRES ±  
MAP 5  
PARCEL 30

BURTON  
66.94 ACRES ±  
MAP 5  
PARCEL 31

ZUMPETTA  
79.47 ACRES ±  
MAP 8  
PARCEL 3

16" BEECH

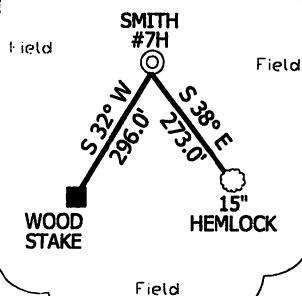
ZUMPETTA  
15.3 ACRES ±  
MAP 8  
PARCEL 4

SMITH  
38.9 ACRES ±  
MAP 8  
PARCEL 5

KOCHER  
32.38 ACRES ±  
MAP 8  
PARCEL 6

SMITH  
57.02 ACRES ±  
MAP 8  
PARCEL 12

### REFERENCES 1" = 400'



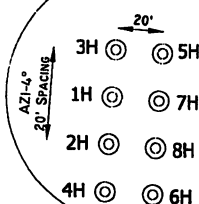
### NOTES ON SURVEY

TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.  
LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 288 AT PAGE 307 AND INFORMATION PROVIDED BY STONE ENERGY.  
SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WETZEL COUNTY IN MARCH, 2011 AND INFORMATION PROVIDED BY STONE ENERGY CORPORATION.  
WELL LAT./LONG. ESTABLISHED BY SG-GPS.

SMITH #7H

Appears To Be No Wells Permitted Within 2400'

SMITH  
Not To Scale

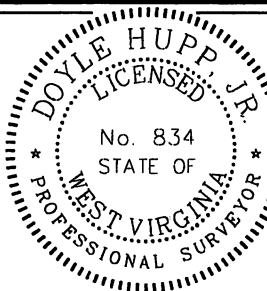


I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.  
834

*Doyle Hupp Jr.*

HUPP Surveying & Mapping  
P.O. Box 647 Grantsville, WV 26147  
(304) 354-7035 EMAIL: hupp@frontiernet.net



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE OCTOBER 7, 20 11

OPERATORS WELL NO. SMITH #7H

API WELL NO. 47-103-02791146

STATE WV COUNTY WETZEL PERMIT 02791146

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W2032 (BK 49-6)  
PROVEN SOURCE OF ELEVATION SG-GPS(OPUS) SCALE 1" = 100'

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



WELL TYPE : OIL    GAS X LIQUID INJECTION    WASTE DISPOSAL    IF "GAS" PRODUCTION X STORAGE    DEEP    SHALLOW X

LOCATION : ELEVATION 1,335' WATERSHED TRIBUTARY OF DOOLIN RUN

DISTRICT MAGNOLIA COUNTY WETZEL QUADRANGLE NEW MARTINSVILLE 7.5'

SURFACE OWNER SONNY & CHARLOTTE SMITH ACREAGE 38.9±

ROYALTY OWNER SONNY & CHARLOTTE SMITH, et al LEASE ACREAGE 357.46±

PROPOSED WORK : LEASE NO.   

DRILL X CONVERT    DRILL DEEPER    REDRILL    FRACTURE OR STIMULATE X PLUG OFF OLD

FORMATION    PERFORATE NEW FORMATION    PLUG AND ABANDON    CLEAN OUT AND REPLUG    OTHER   

PHYSICAL CHANGE IN WELL (SPECIFY)    TARGET FORMATION MARCELLUS

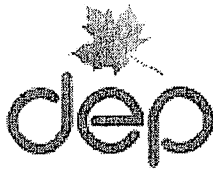
ESTIMATED DEPTH TVD 6,740' MD 11,500'

WELL OPERATOR STONE ENERGY CORPORATION DESIGNATED AGENT TIM MCGREGOR

ADDRESS P.O. BOX 52807 LAFAYETTE, LA 70508 ADDRESS 6000 HAMPTON CENTER SUITE B MORGANTOWN WV 26505

COUNTY NAME

PERMIT



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**west virginia department of environmental protection**

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October 12, 2012

**WELL WORK PERMIT**

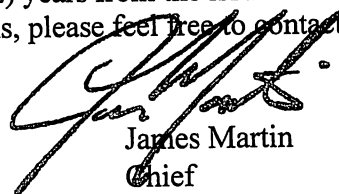
**Horizontal 6A Well**

This permit, API Well Number: 47-10302792, issued to STONE ENERGY CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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James Martin  
Chief

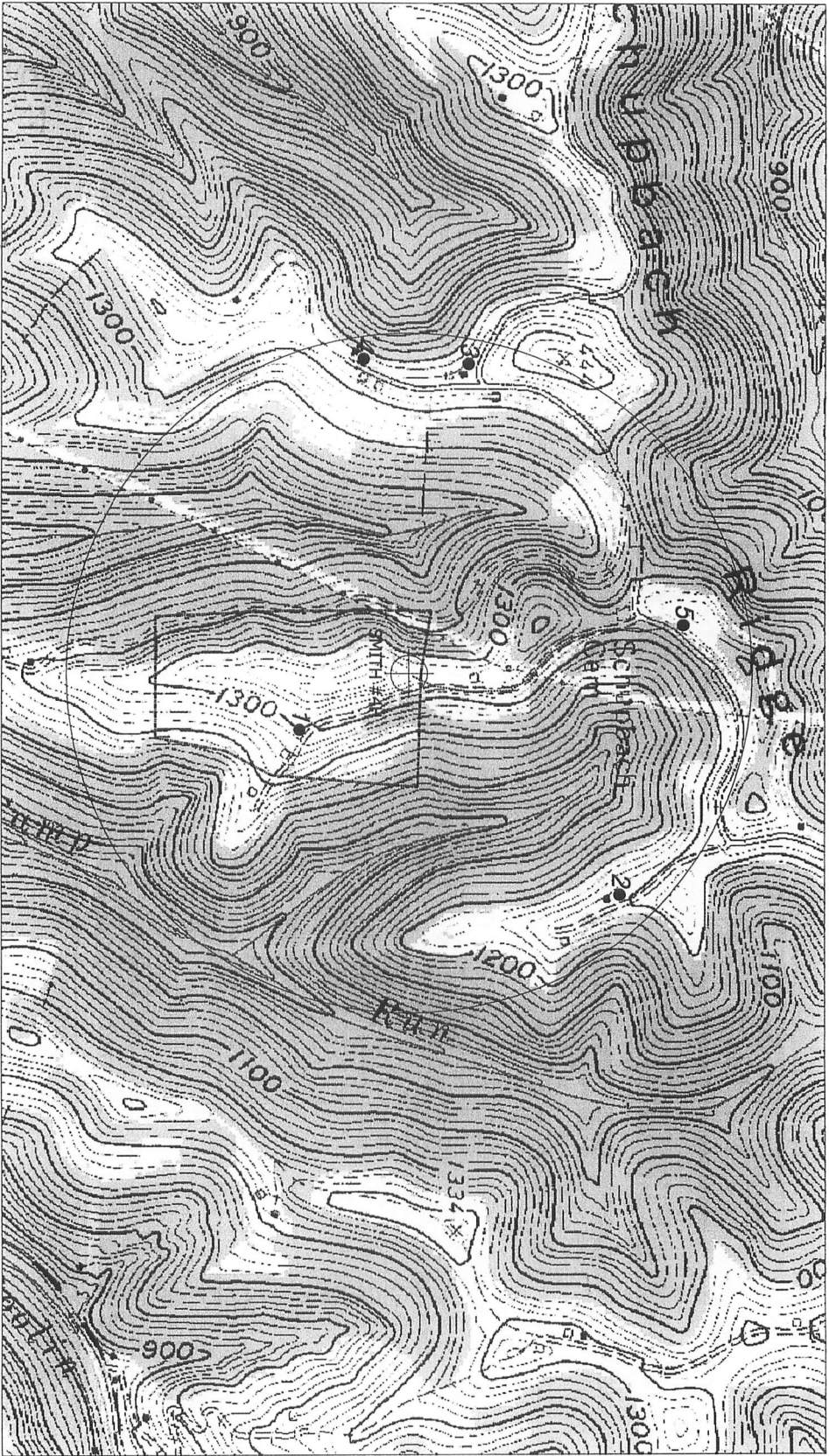
Operator's Well No: SMITH 4H  
Farm Name: SMITH, SONNY AND CHARLOT  
**API Well Number: 47-10302792**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 10/12/2012

**Promoting a healthy environment.**



103-2762

Stone Energy Corp.  
Smith #4H Water



DN #  
5-22-13

SCALE: 1-INCH = 1000-FEET



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147  
PH: (304) 354-7035 E-MAIL: hupp@online.net

1" = 1000'  
New Martinsville Quod

Stone Energy Corporation  
PO Box 52807  
Lafayette, LA 70508

# ●

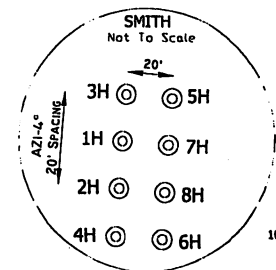
Existing Access Road  
1000' Water Sampling  
Radius  
Possible Water  
Sources

## SMITH #4H

SMITH #4H  
STATE PLANE  
COORDINATES  
NORTH ZONE  
(N) 420212  
(E) 1630824

SMITH #4H  
L & L DECIMAL  
39.64633  
80.81107

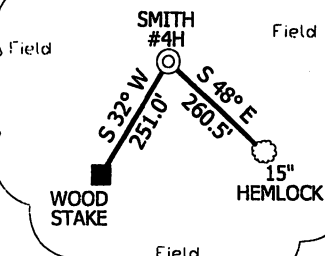
SMITH #4H  
UTM (NAD 83)  
4388530  
516225



SMITH #4H  
LANDING POINT  
L & L DECIMAL  
39.64418  
80.81156

SMITH #4H  
LANDING POINT  
UTM (NAD 83)  
4388292  
516184

REFERENCES  
1" = 400'



SMITH #4H

Appears To Be No Wells  
Permitted Within 2400'

SMITH #4H  
BOTTOM HOLE  
STATE PLANE  
COORDINATES  
NORTH ZONE  
(N) 415810  
(E) 1632835

SMITH #4H  
BOTTOM HOLE  
L & L DECIMAL  
39.63433  
80.80370

SMITH #4H  
BOTTOM HOLE  
UTM (NAD 83)  
4387199  
516860

## NOTES ON SURVEY

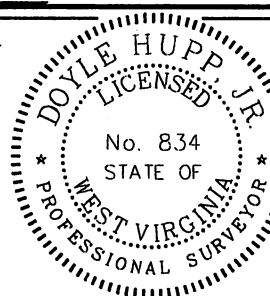
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ORIGINAL PLAT DATE OF JANUARY 3, 2012.

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(+) DENOTES LOCATION OF WELL ON UNITED  
STATES TOPOGRAPHIC MAPS.

DATE MAY 4, 20 12

OPERATORS WELL NO. SMITH #4H

API  
WELL NO. 47-103-2792 H6H

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W2032 (BK 49-6)  
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STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



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SURFACE OWNER SONNY & CHARLOTTE SMITH ACREAGE 38.91

ROYALTY OWNER SONNY & CHARLOTTE SMITH, et al LEASE ACREAGE 225.26 E

PROPOSED WORK : LEASE NO.

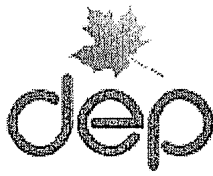
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WELL OPERATOR STONE ENERGY CORPORATION DESIGNATED AGENT TIM MCGREGOR  
ADDRESS P.O. BOX 52807 LAFAYETTE, LA 70508 ADDRESS 6000 HAMPTON CENTER SUITE B MORGANTOWN WV 26605



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October 12, 2012

**WELL WORK PERMIT**


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James Martin  
Chief

Operator's Well No: SMITH 2H  
Farm Name: SMITH, SONNY AND CHARLOTI  
**API Well Number: 47-10302793**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 10/12/2012

**Promoting a healthy environment.**

Stone Energy Corp.  
Smith #2H Water

103-2193



Dm H  
S-22-13

SCALE: 1-INCH = 1000-FEET



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147  
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1" = 1000'  
New Martinsville Quad

Stone Energy Corporation  
PO Box 52807  
Lafayette, LA 70508

Existing Access Road  
1000' Water Sampling  
Radius  
Possible Water  
Sources



**SMITH #2H**

SMITH #2H  
STATE PLANE  
COORDINATES  
NORTH ZONE  
(N) 420232  
(E) 1630826

SMITH #2H  
L & L DECIMAL  
39.64638  
80.81108

SMITH #2H  
UTM (NAD 83)  
4388536  
516226

SMITH #2H  
LANDING POINT

ZUMPETTA  
79.47 ACRES ±  
MAP 8  
PARCEL 3

SMITH #2H

10" SUGAR MAPLE

BLAKE  
107.25 ACRES ±  
MAP 5  
PARCEL 33

LEMONS  
69.12 ACRES ±  
MAP 5  
PARCEL 35

NEFF  
42.88 ACRES ±  
MAP 8  
PARCEL 8

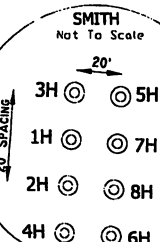
SMITH  
38.9 ACRES ±  
MAP 8  
PARCEL 5

KOCHER  
32.38 ACRES ±  
MAP 8  
PARCEL 6

LEMONS  
31.85 ACRES ±  
MAP 8  
PARCEL 7

LEMONS, et al  
39.45 ACRES ±  
MAP 8  
PARCEL 14

LEHNER  
9.734 ACRES ±  
MAP 8  
PARCEL 15.1



ZUMPETTA  
15.3 ACRES ±  
MAP 8  
PARCEL 4

SMITH  
1.23 ACRES ±  
MAP 8  
PARCEL 12.1

SMITH  
57.02 ACRES ±  
MAP 8  
PARCEL 12

LEMONS  
6.40 ACRES ±  
MAP 8  
PARCEL 13

JOHNSTON  
24.051 ACRES ±  
MAP 8  
PARCEL 14.1

MAP 8  
PARCELS 25, 26.1  
& 26.2

HARTLEY  
10 ACRES ±  
MAP 8  
PARCEL 29

SMITH #2H  
LANDING POINT  
STATE PLANE  
COORDINATES  
NORTH ZONE  
(N) 419161  
(E) 1630162

SMITH #2H  
LANDING POINT  
L & L DECIMAL  
39.64342  
80.81337

SMITH #2H  
LANDING POINT  
UTM (NAD 83)  
4388207  
516029

DURIG  
57.16 ACRES ±  
MAP 8  
PARCEL 62

NEWMAN  
6.91 ACRES ±  
MAP 8  
PARCEL 63

NEWMAN, et al  
146.70 ACRES ±  
MAP 8  
PARCEL 73

DURIG  
22.12 ACRES ±  
MAP 8  
PARCEL 54.1

PALMER  
8 ACRES ±  
MAP 8  
PARCEL 54

MAP 8  
PARCELS 64.1, 64.2,  
65, 65.1 & 65

WESTFALL  
71.66 ACRES ±  
MAP 8  
PARCEL 55

SMITH #2H  
BOTTOM HOLE

MAP 8  
PARCEL 25.1

MAP 8  
PARCEL 28.1

EBERT  
19.63 ACRES ±  
MAP 8  
PARCEL 28

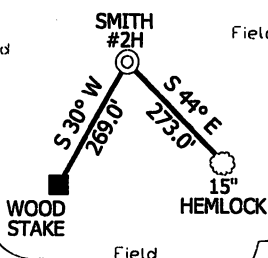
STEWART, et al  
148.90 ACRES ±  
MAP 9  
PARCEL 7

COCHRAN  
9.93 ACRES ±  
MAP 8  
PARCEL 66.1

COCHRAN  
108.53 ACRES ±  
MAP 8  
PARCEL 66

PITTSBERGER  
8.33 ACRES ±  
MAP 8  
PARCEL 64

### REFERENCES 1" = 400'



SMITH #2H

Appears To Be No Wells  
Permitted Within 2400'

SMITH #2H  
BOTTOM HOLE  
STATE PLANE  
COORDINATES  
NORTH ZONE  
(N) 415621  
(E) 1632097

SMITH #2H  
BOTTOM HOLE  
L & L DECIMAL  
39.63378  
80.80631

SMITH #2H  
BOTTOM HOLE  
UTM (NAD 83)  
4387138  
516636

### NOTES ON SURVEY

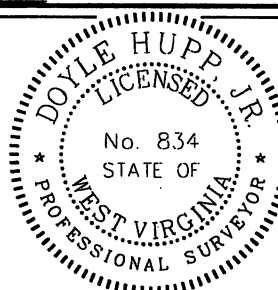
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P.S.  
8.34

*Doyle Hupp Jr.*

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(+) DENOTES LOCATION OF WELL ON UNITED  
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DATE MAY 4, 2012

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API  
WELL NO. 47-103-2793H6A  
STATE COUNTY PERMIT

MINIMUM DEGREE  
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PROVEN SOURCE SCALE 1" = 1000'  
OF ELEVATION SG-GPS(OPUS)

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



WELL TYPE: OIL GAS ☒ LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION ☒ STORAGE DEEP SHALLOW ☒

LOCATION: ELEVATION 1,335' WATERSHED TRIBUTARY OF DOOLIN RUN

DISTRICT MAGNOLIA COUNTY WETZEL QUADRANGLE NEW MARTINSVILLE 7.5'

SURFACE OWNER SONNY & CHARLOTTE SMITH ACREAGE 38.91

ROYALTY OWNER SONNY & CHARLOTTE SMITH, et al LEASE ACREAGE 201.001

PROPOSED WORK: LEASE NO.

DRILL ☒ CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE ☒ PLUG OUT OLD

FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD 6,710' MD 13,400'

WELL OPERATOR STONE ENERGY CORPORATION DESIGNATED AGENT TIM MCGREGOR

ADDRESS P.O. BOX 52807 LAFAYETTE, LA 70508 ADDRESS 6000 HAMPION CENTER SUITE B MORGANTOWN WV 26505